

Design and construction of remote display control signboards using RF signals

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Abstract: This study aims to address the issue of long-range RF signal transmission in noisy environments through the design and construction of an optically controlled display amplification system. The project's objective is to develop an efficient device that improves the quality of RF transmission signals in modern wireless applications. Through a combination of theoretical research and experimentation, the topic will explore methods to optimize the design and deployment of the optical amplification system, while also identifying the technical challenges that need to be overcome. The project's results will not only enhance scientific understanding of RF signals but also make a significant contribution to the wireless communication technology industry.

Keywords: optical amplification, display control, RF signal transmission, wireless applications, system design